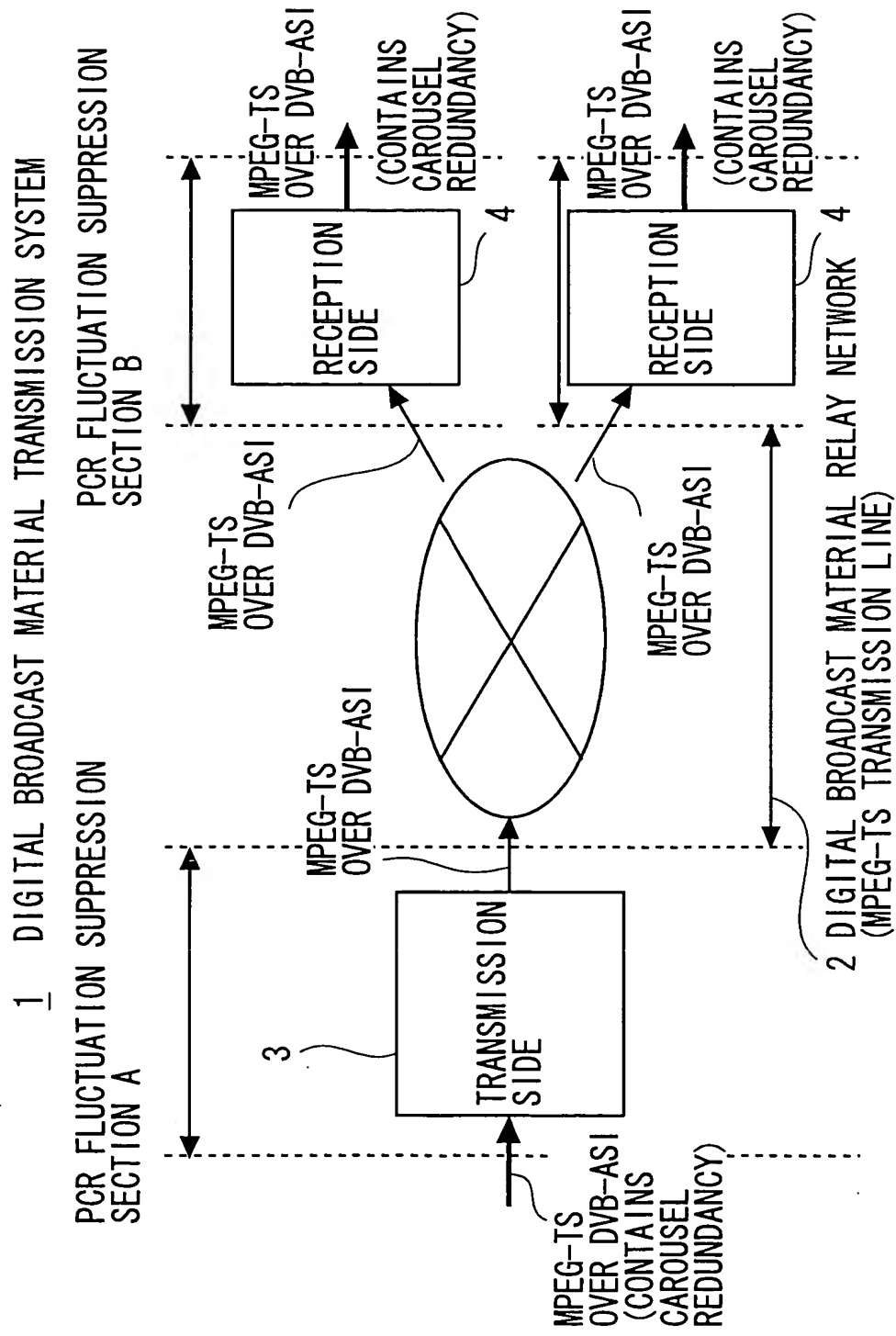


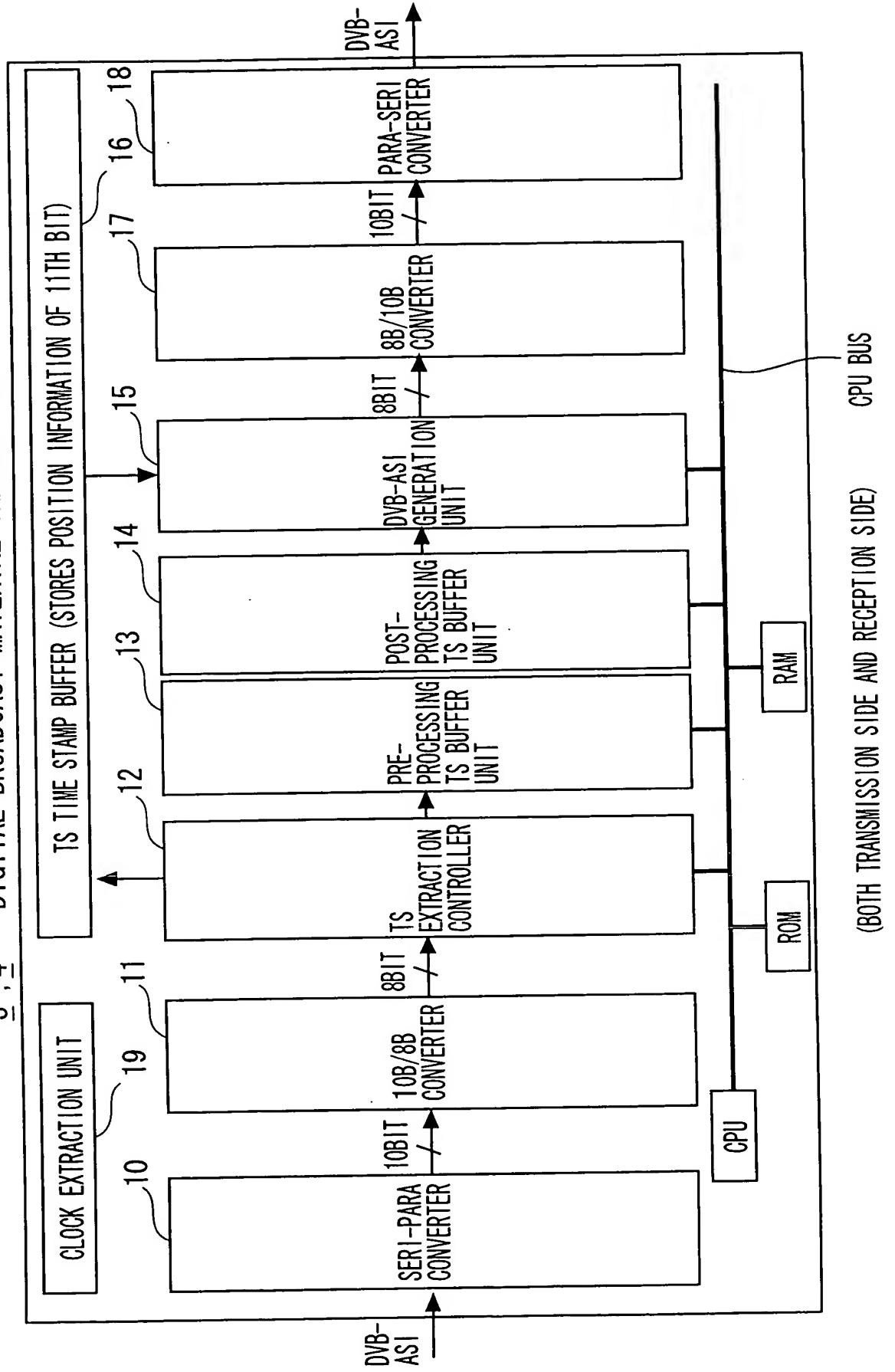
FIG. 1



3, 4 :DIGITAL BROADCAST MATERIAL TRANSMITTER

FIG. 2

3, 4 DIGITAL BROADCAST MATERIAL TRANSMITTER



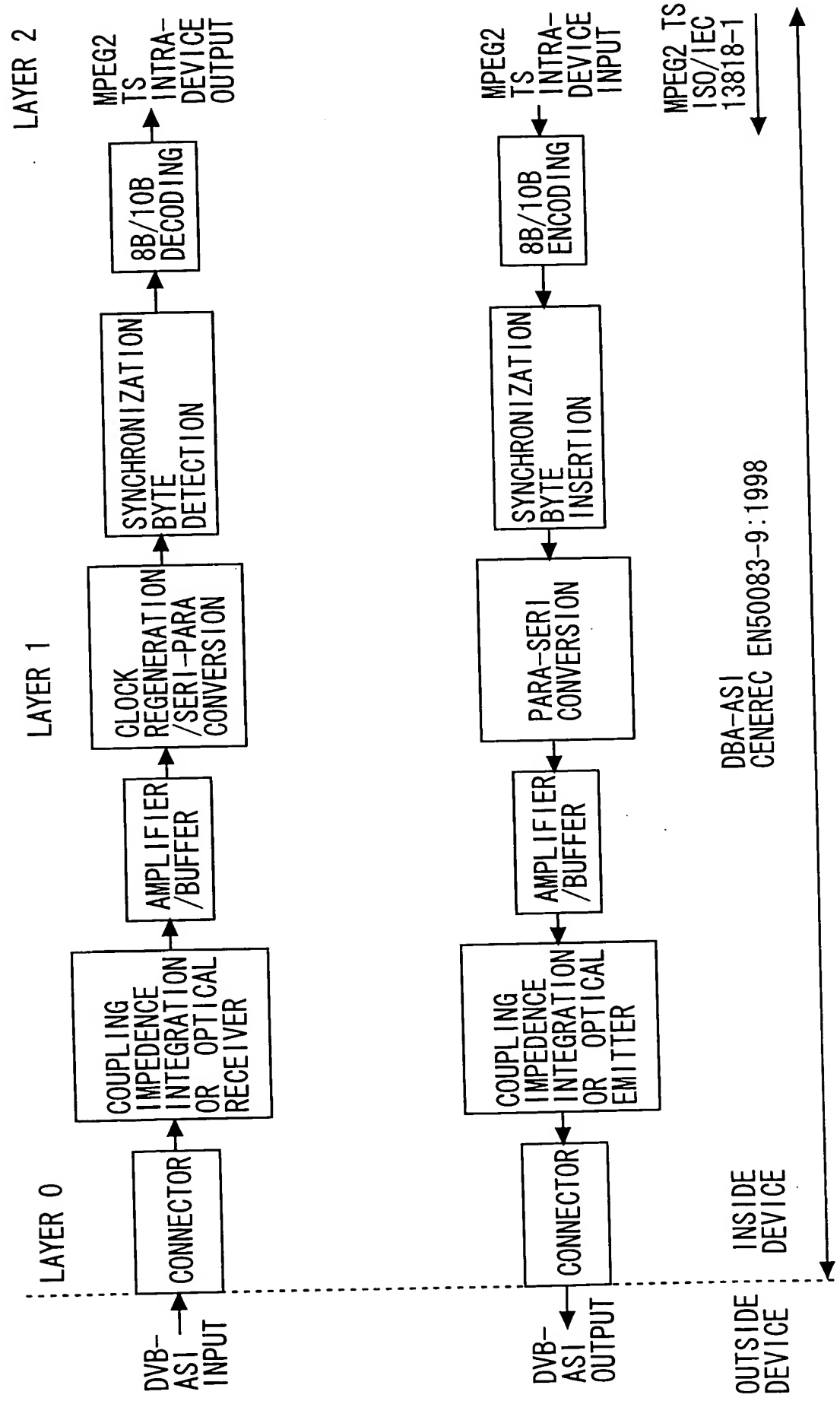
*FIG. 3*

SPI : SYNCHRONOUS PARALLEL INTERFACE
SSI : SYNCHRONOUS SERIAL INTERFACE SYNCHRONOUS
ASI : ASYNCHRONOUS SERIAL INTERFACE

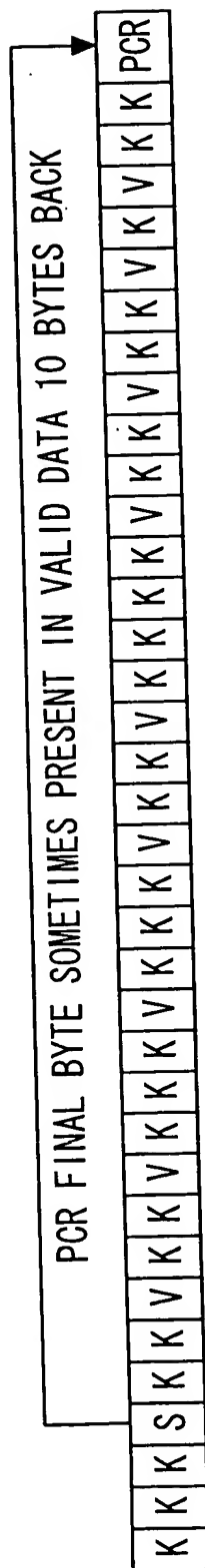
*FIG. 4*

LAYER 2: TRANSPORT PROTOCOL (MPEG2-TS)
LAYER 1: DATA ENCODING (8B/10B CONVERSION)
LAYER 0: PHYSICAL REQUIREMENTS (270Mbps, OPTICAL or COAXIAL)

FIG. 5



**FIG. 6**



K ·K28 5 AS DETERMINED BY DVB-ASI

```

:AZO. J AS DETERMINED BY THE USER
:SYNCH IN TRANSPORT PACKET HEADER

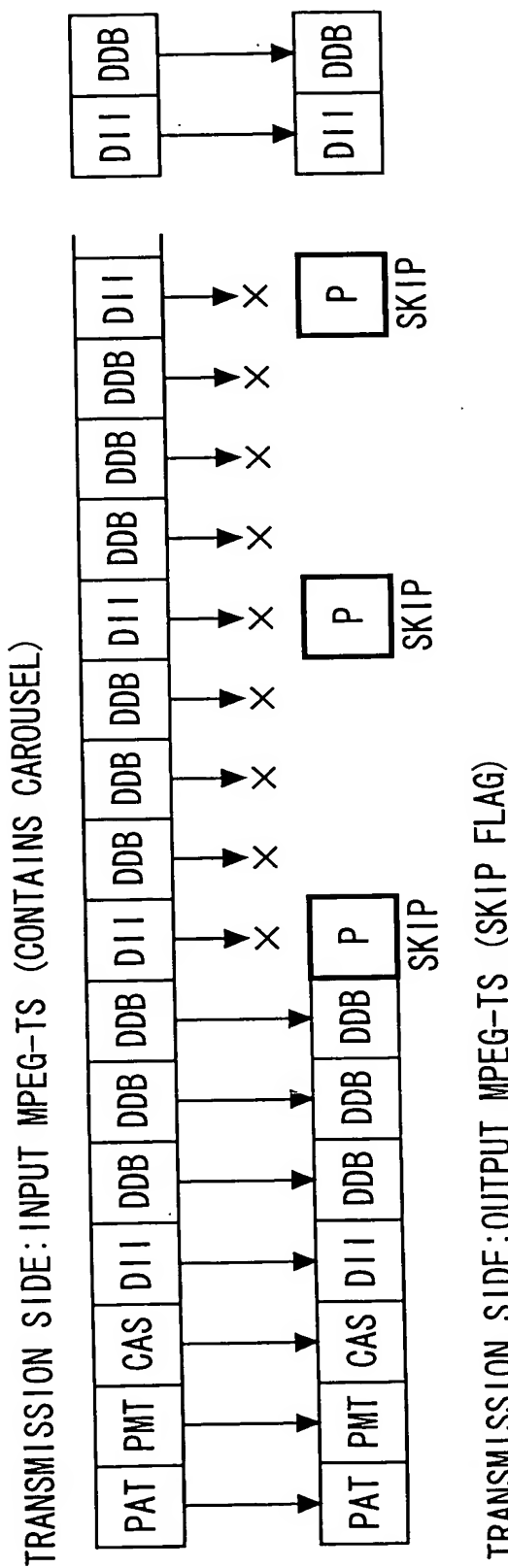
```

- SING. IN TRANSPORT PACKET RECS
- VALID DATA IN TRANSPORT PACKET

PCR:10TH BYTE VALID DATA COUNTING FROM S, WHERE THERE COULD BE ADAPTATION FIELD PCR

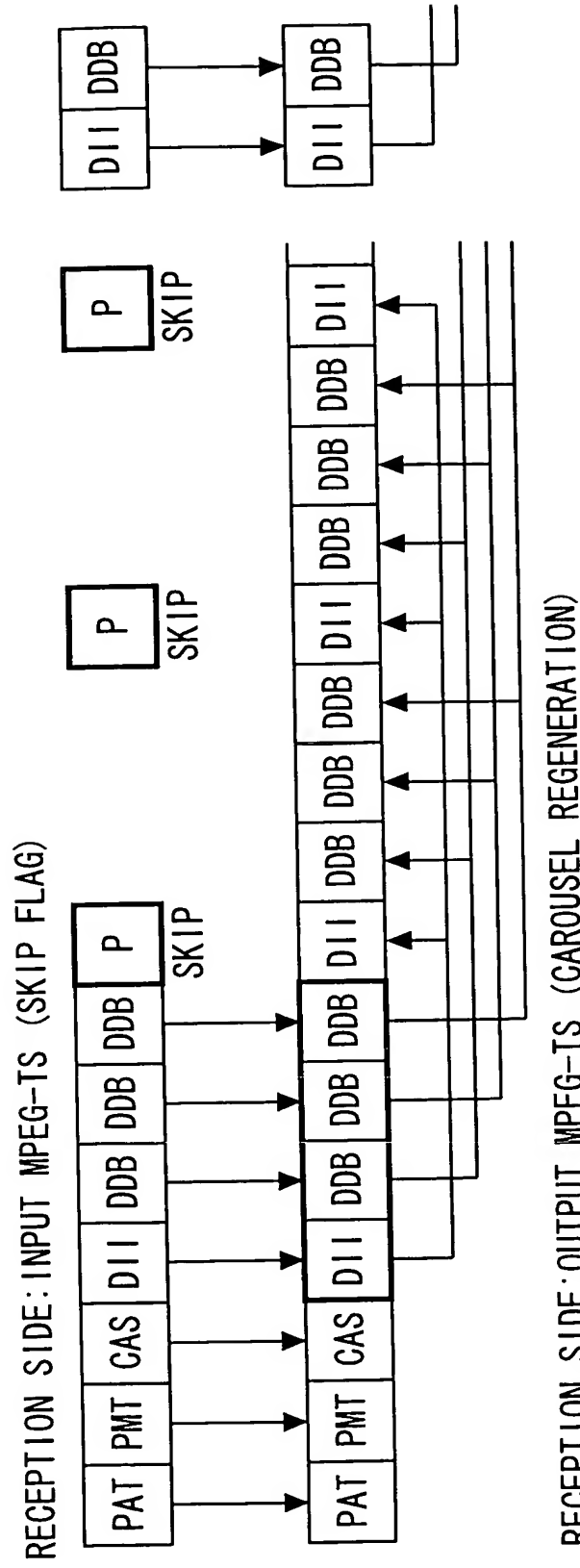
PCR: 101H BYTE VALID DATA COUNTING FROM 01  
FINAL BYTE OF TRANSPORT PACKET HEADER

**FIG. 7**



PAT: PROGRAM ASSOCIATION SECTION  
PMT: TS PROGRAM MAP SECTION  
CAS: CONDITIONAL ACCESS SECTION  
P: PRIVATE SECTION  
DII: DSM-CC SECTION (CONTAINS DownloadIndication)  
DDB: DSM-CC SECTION (CONTAINS DownloadDataBlock)

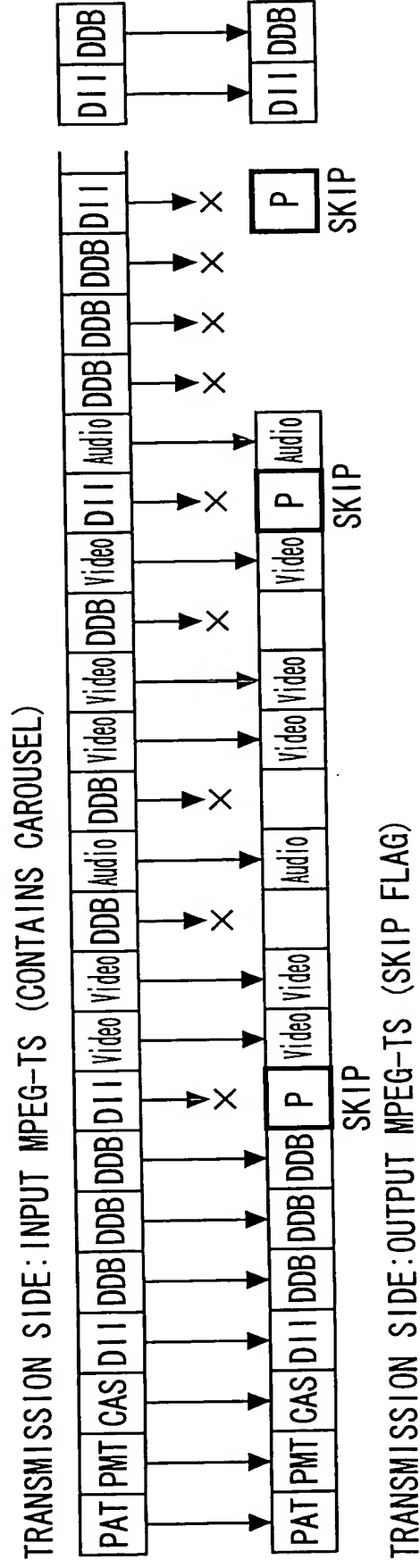
**FIG. 8**



PAT: PROGRAM ASSOCIATION SECTION  
PMT: TS PROGRAM MAP SECTION  
CAS: CONDITIONAL ACCESS SECTION  
P: PRIVATE SECTION  
DII: DSM-CC SECTION (CONTAINS DownloadIndication)  
DDB: DSM-CC SECTION (CONTAINS DownloadDataBlock)

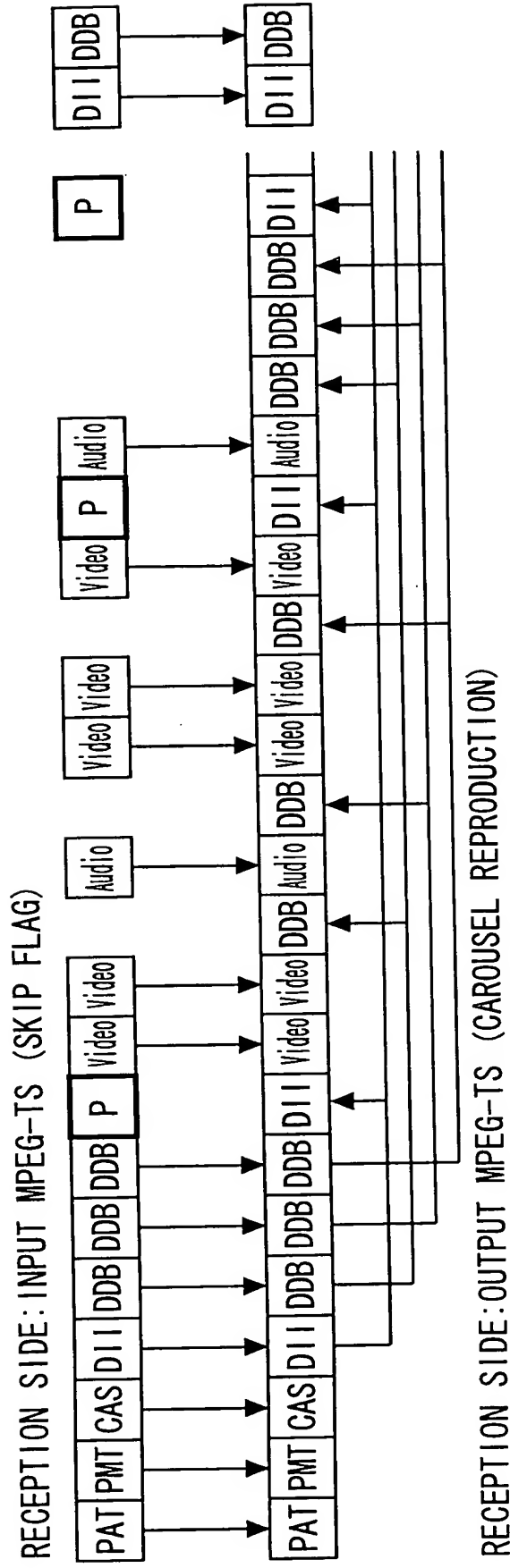


FIG. 9



PAT: PROGRAM ASSOCIATION SECTION  
PMT: TS PROGRAM MAP SECTION  
CAS: CONDITIONAL ACCESS SECTION  
D11: DSM-CC SECTION (CONTAINS DownloadInfoIndication)  
DDB: DSM-CC SECTION (CONTAINS DownloadDataBlock)  
Video: PES Packet (Video)  
Audio: PES Packet (Audio)

FIG. 10



PAT: PROGRAM ASSOCIATION SECTION  
PMT: TS PROGRAM MAP SECTION  
CAS: CONDITIONAL ACCESS SECTION  
P: PRIVATE SECTION  
DII: DSM-CC SECTION (CONTAINS DownloadInfoIndication)  
DDB: DSM-CC SECTION (CONTAINS DownloadDataBlock)  
Video: PES Packet (Video)  
Audio: PES Packet (Audio)

FIG. 11

```
[CAROUSEL_SKIP_DESCRIPTOR] ( ) {  
    dsscriptor_tag  
    dsscriptor_length  
    CurrentSkipCount  
    TotalSkipCount  
    for (i=0; i<N; i++) {  
        stuffing_byte  
    }  
}
```

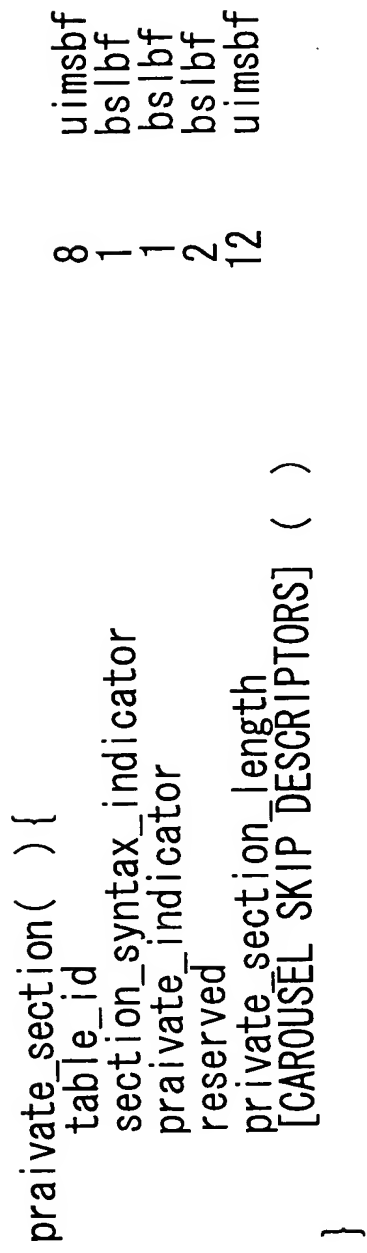
	8	uimsbf
	8	uimsbf
	8	uimsbf
	32	uimsbf
	8	bslbf

*FIG. 12*

```
[STUFFING DESCRIPTORS] ( ) {  
    dsscriptor_tag  
    dsscriptor_length  
    for (i=0; i<N; i++) {  
        stuffing_byte  
    }  
}
```

8	uimbsf
8	uimbsf
8	bslbf

FIG. 13



*FIG. 14*

```
private_section( ) {  
    table_id  
    section_syntax_indicator  
    private_indicator  
    reserved  
    private_section_length  
    [SUTFFING DESCRIPTORS] ( )  
}
```

8	uimbsf
1	bslbf
1	bslbf
2	bslbf
12	uimbsf

FIG. 15A

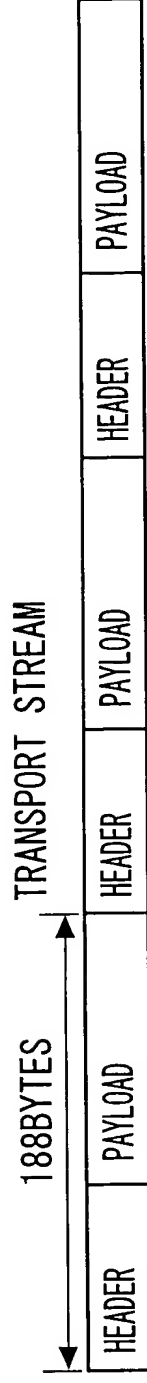


FIG. 15B

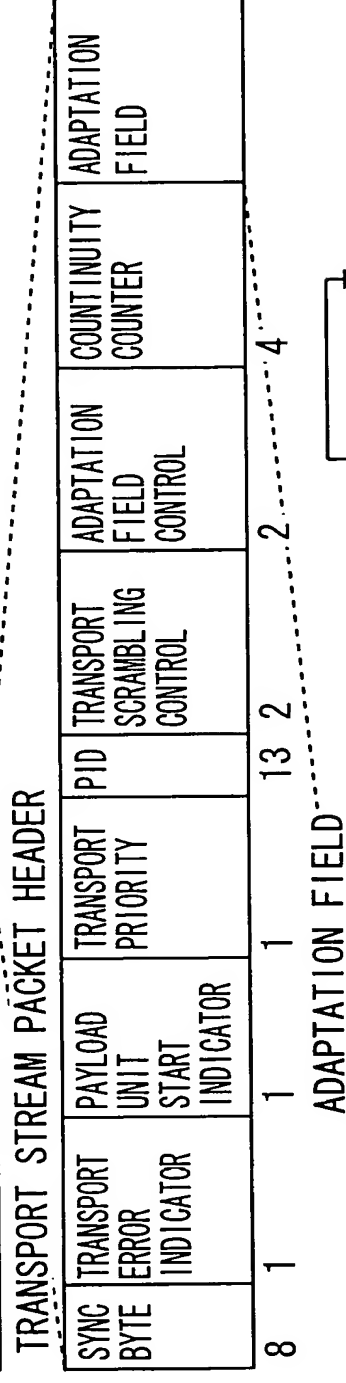


FIG. 15C

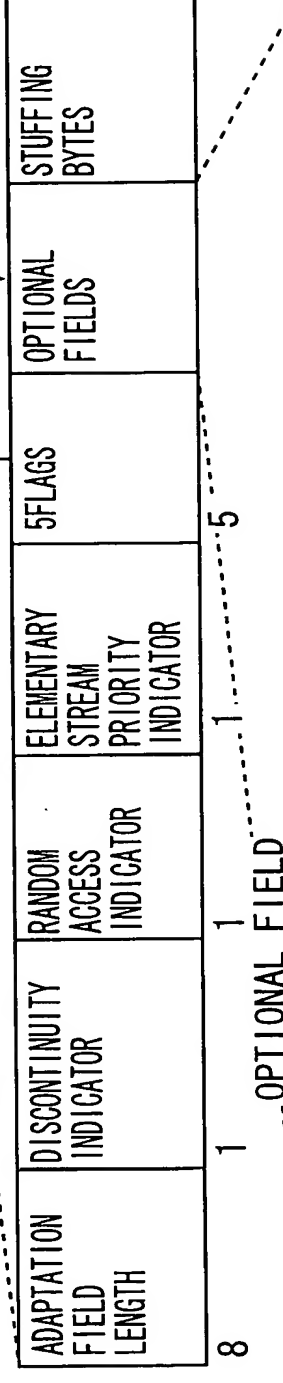


FIG. 15D

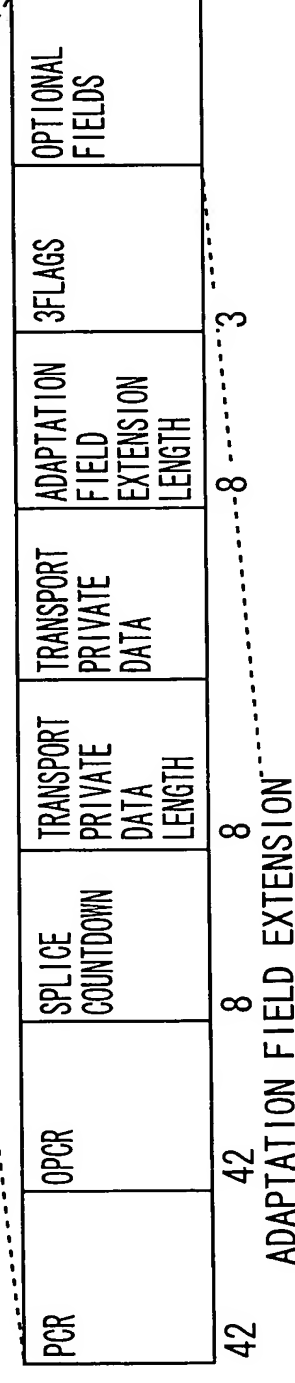
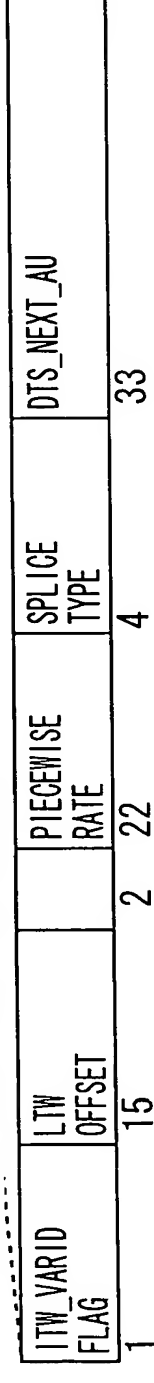


FIG. 15E



**FIG. 16**

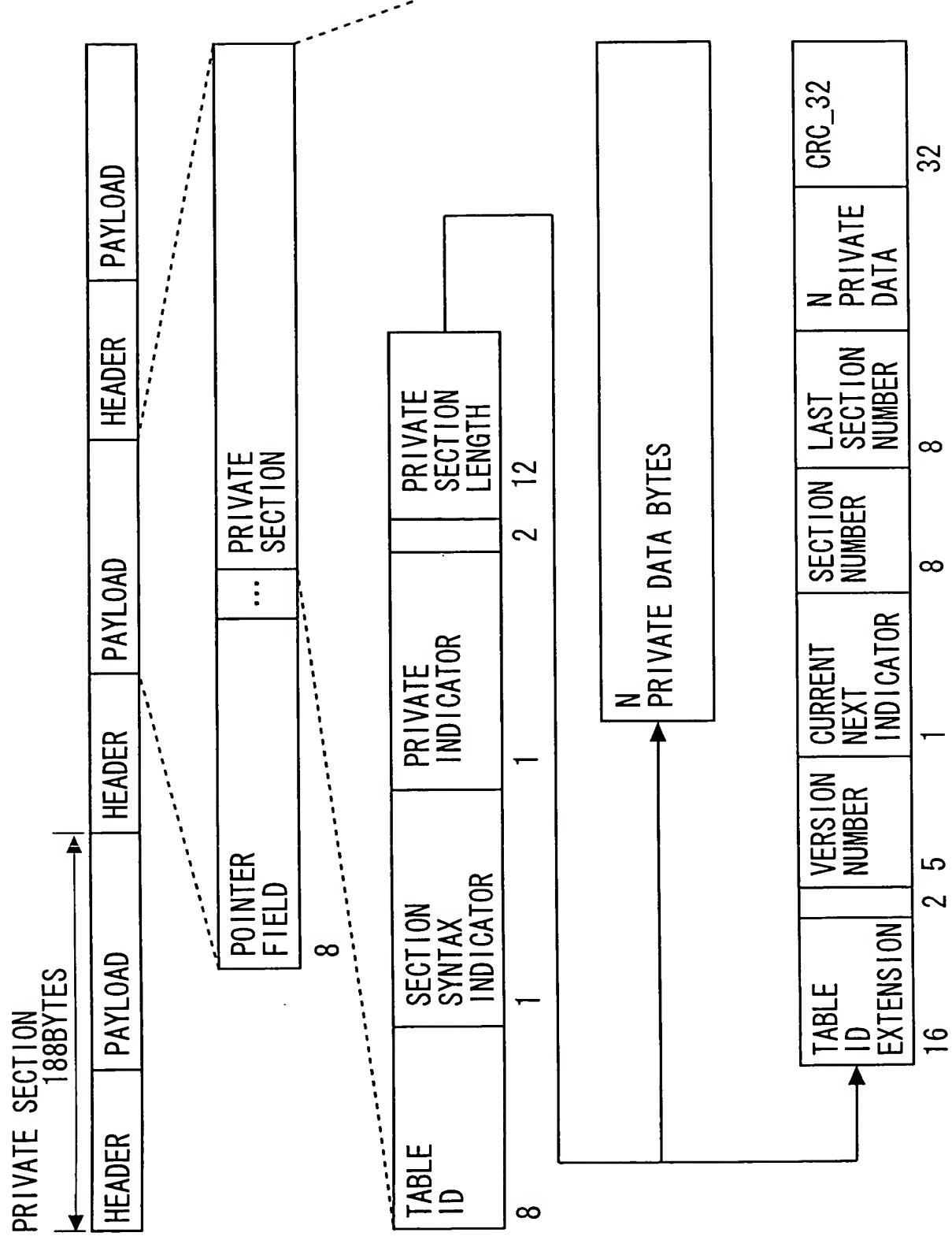




FIG. 17

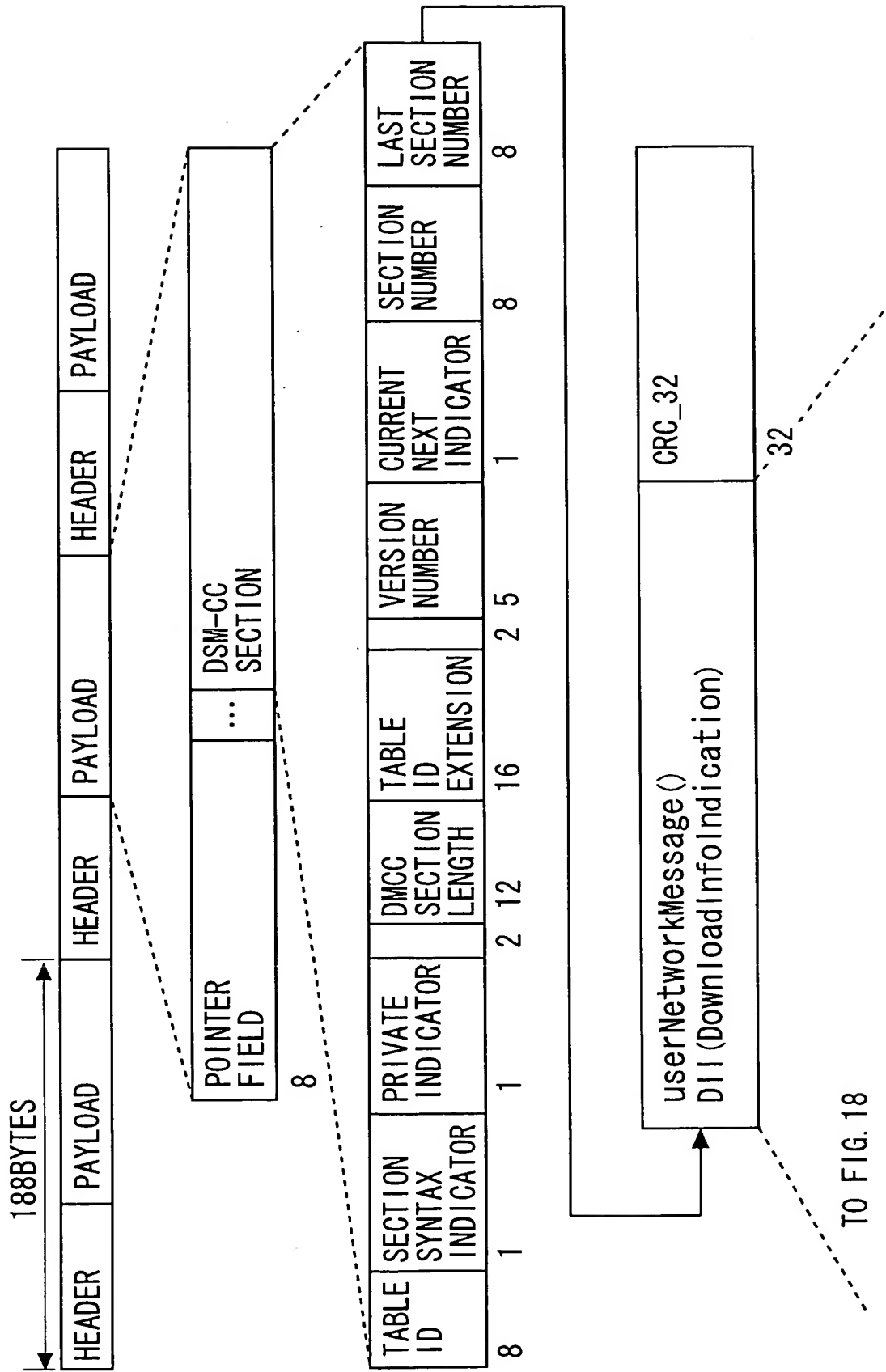


FIG. 18

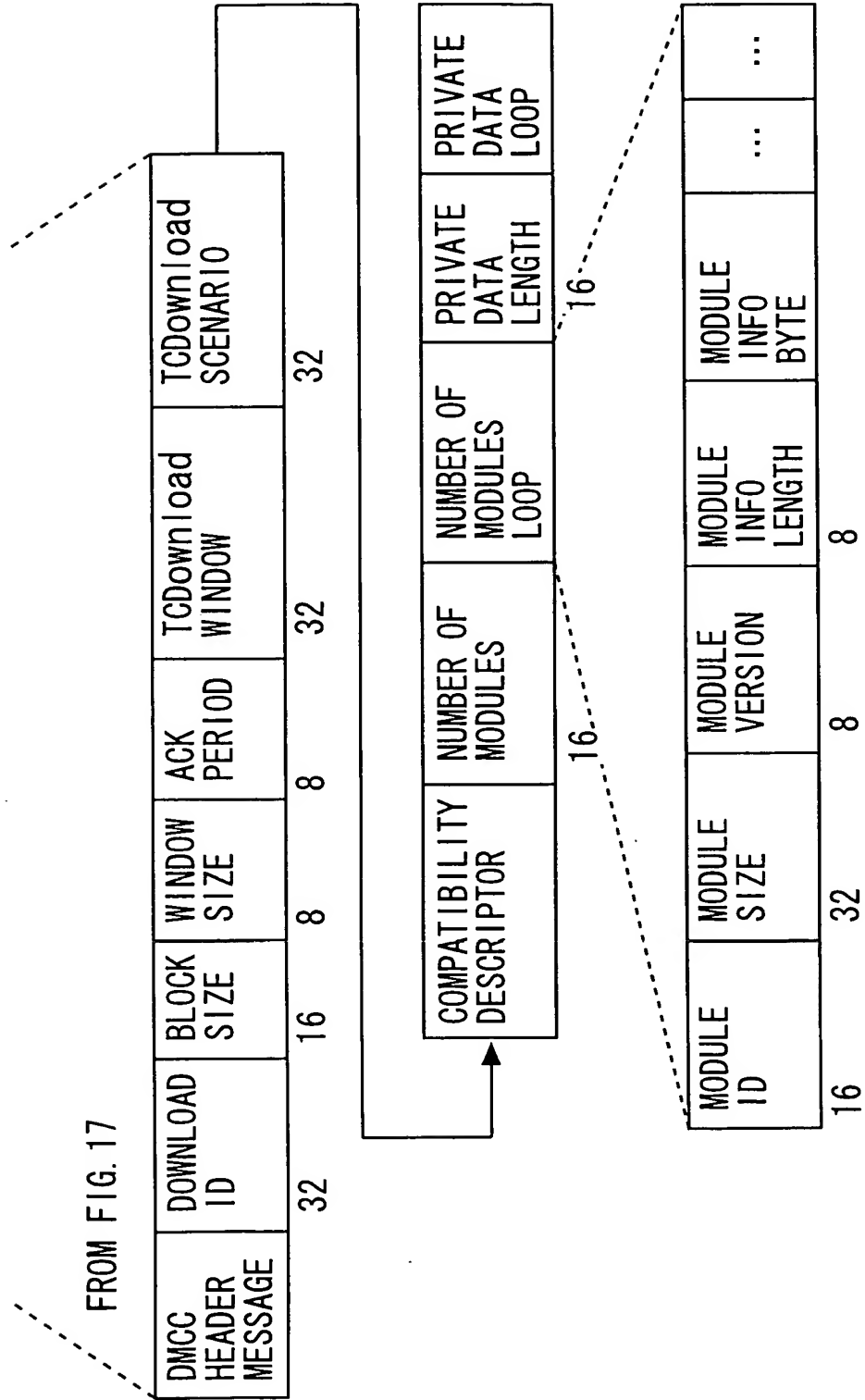
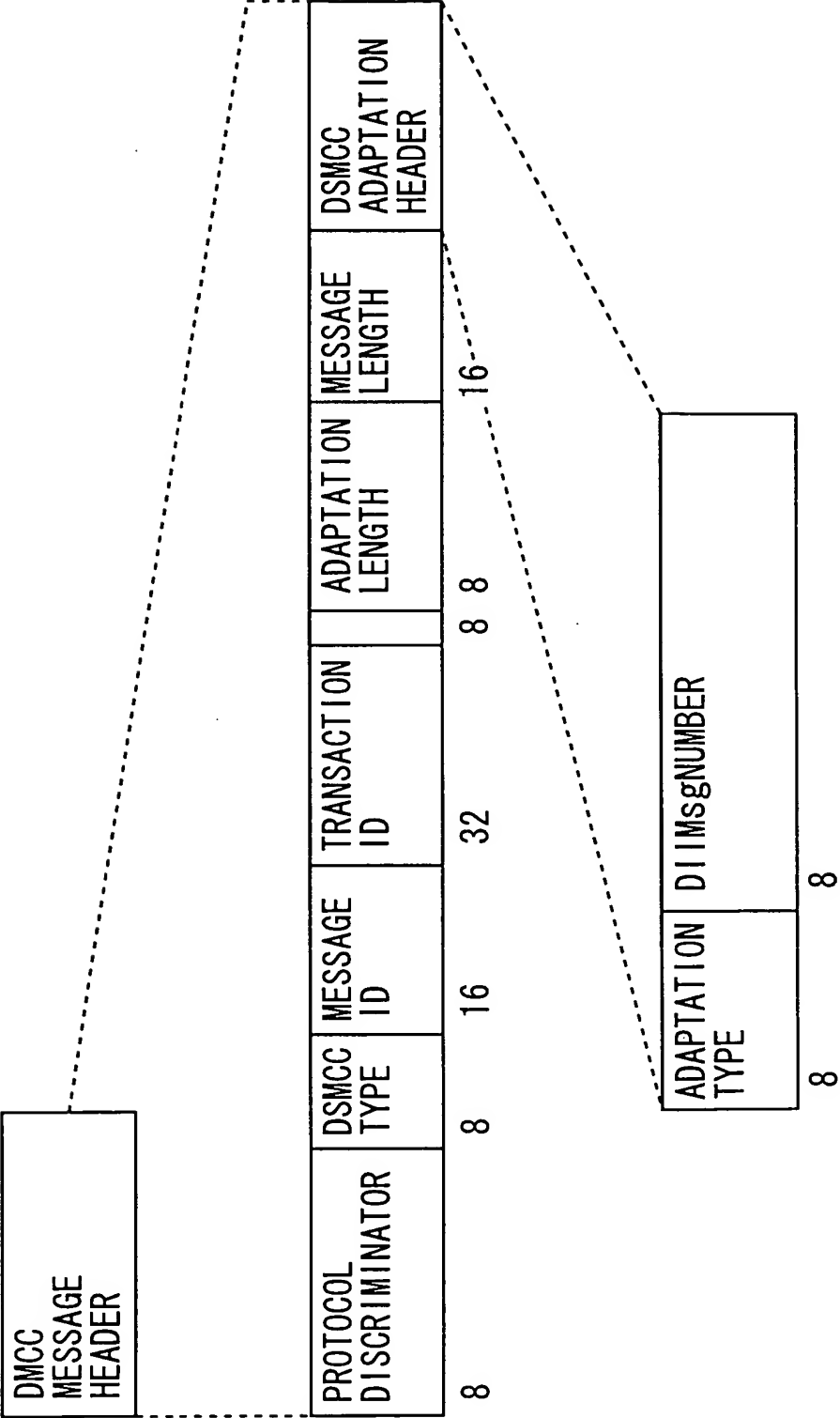


FIG. 19



*FIG. 20*

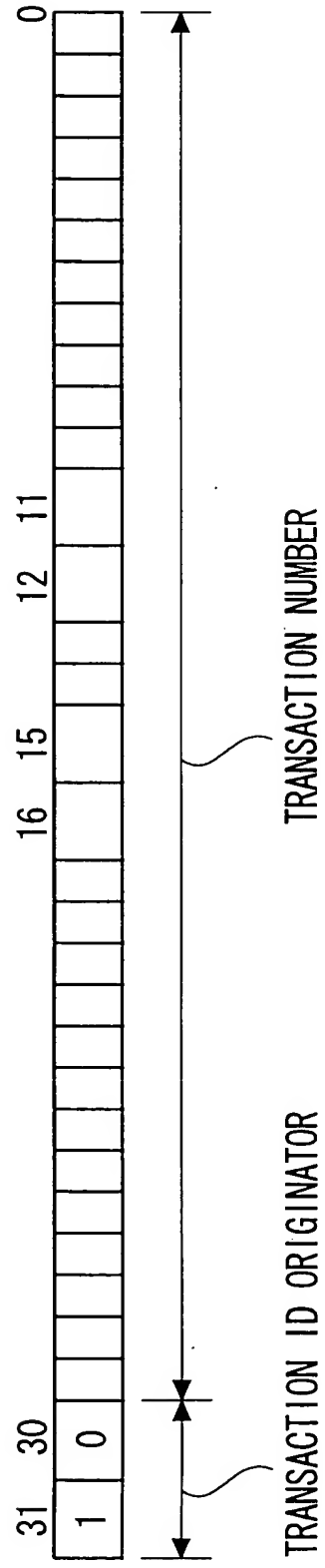
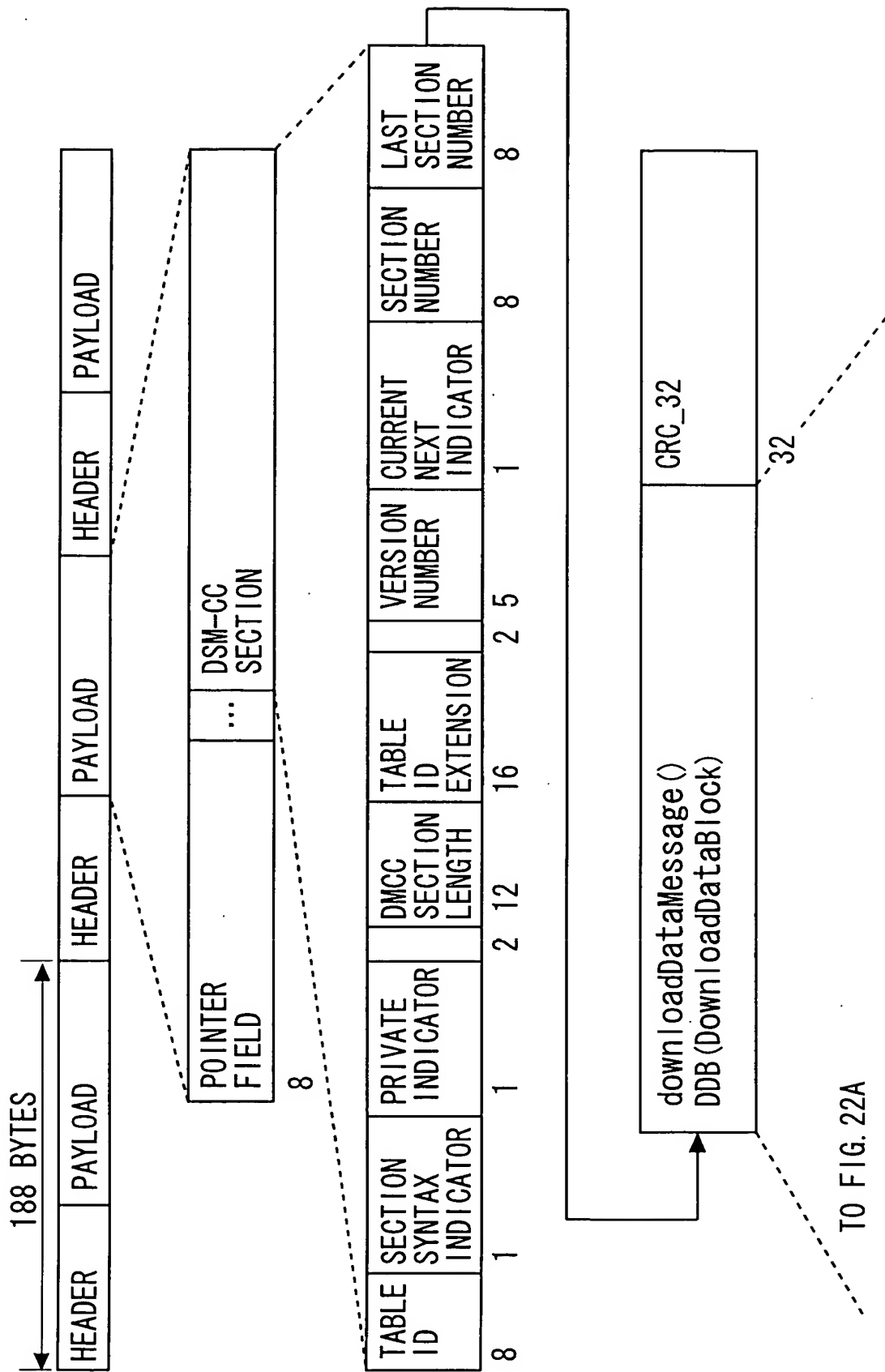


FIG. 21



TO FIG. 22A

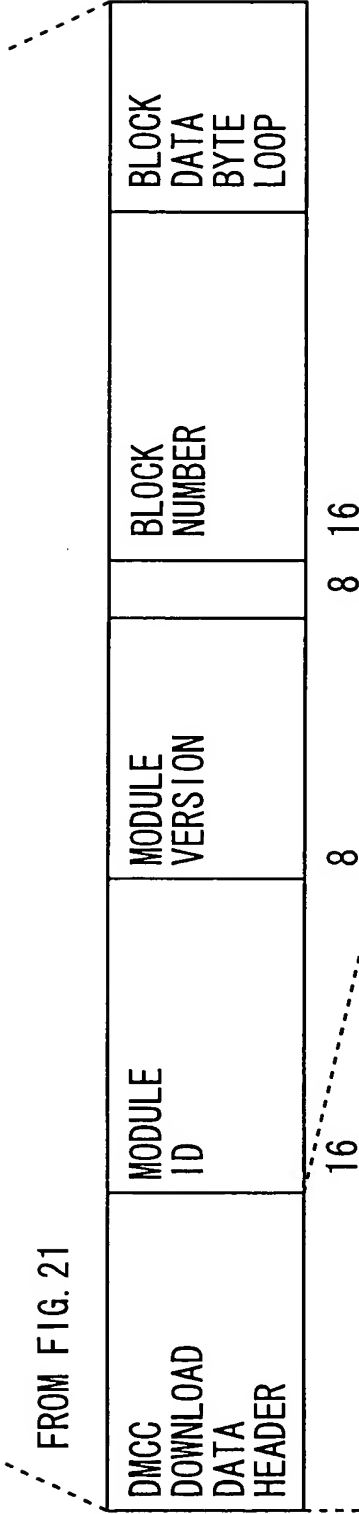


FIG. 22A

DATA STRUCTURE OF DownloadDataBlock

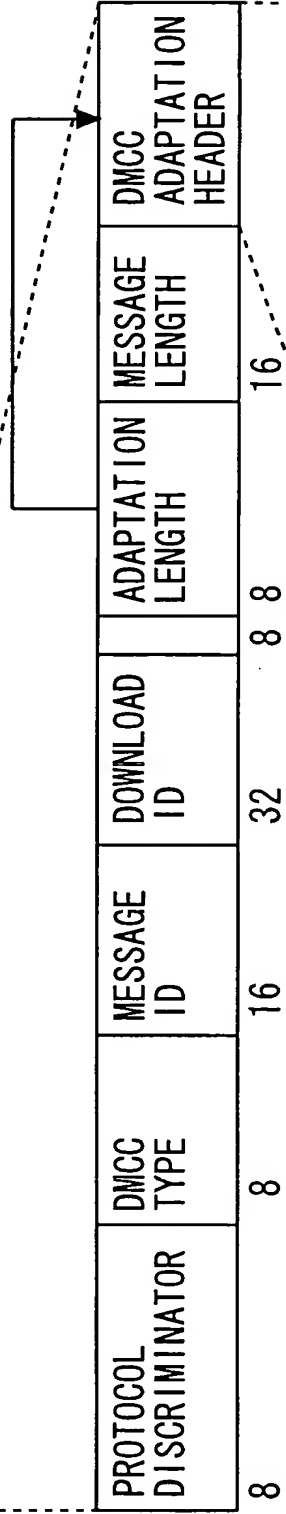


FIG. 22B

DATA STRUCTURE OF dsmccdownloadDataHeader

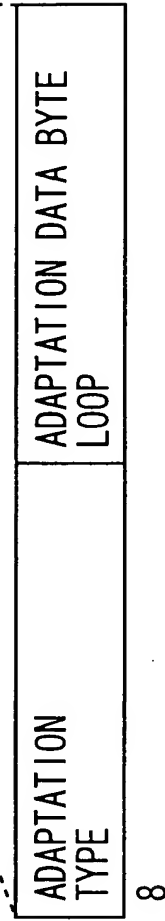
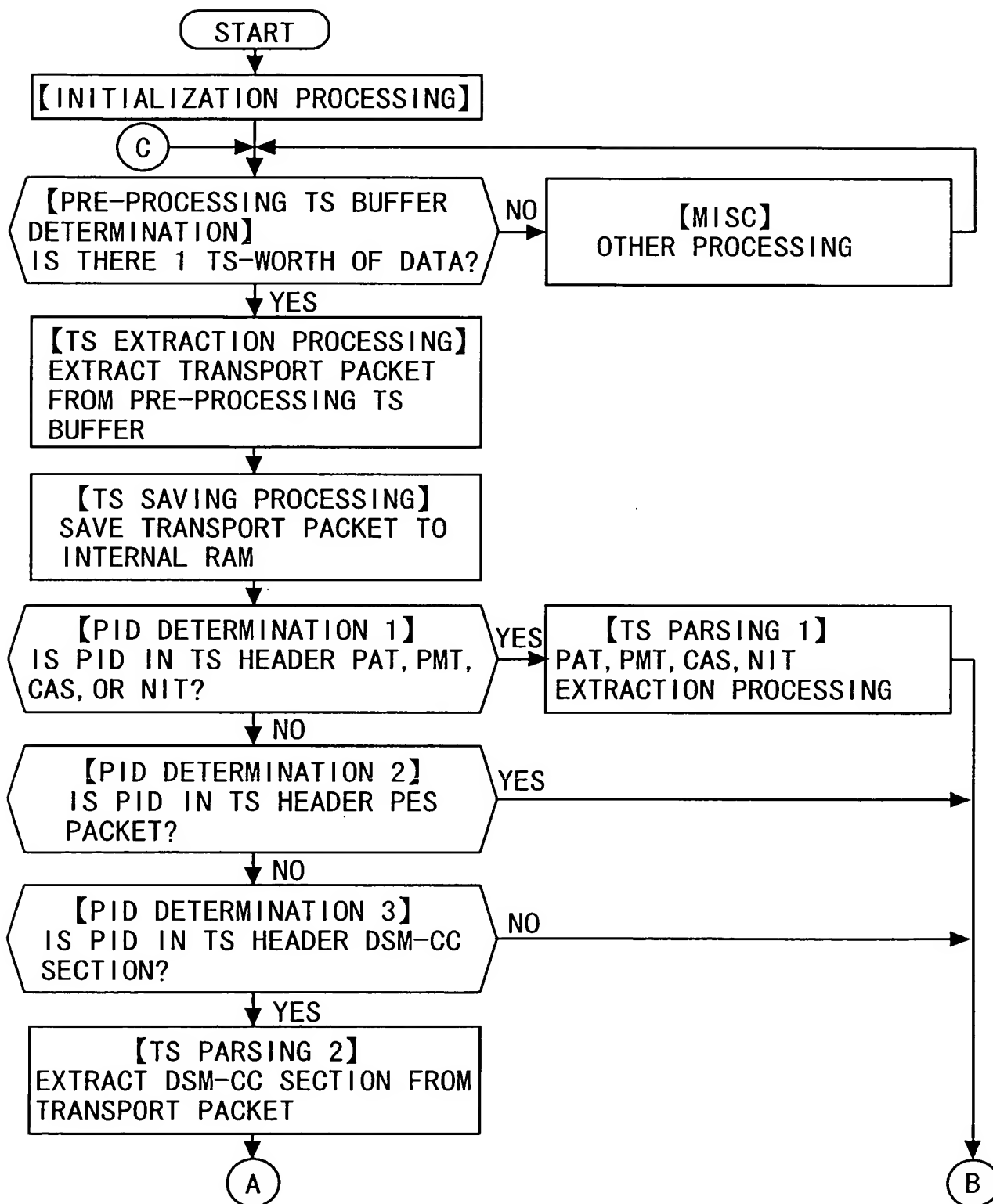


FIG. 22C

DATA STRUCTURE OF dsmccAdaptationHeader

FIG. 23A



*FIG. 23B*

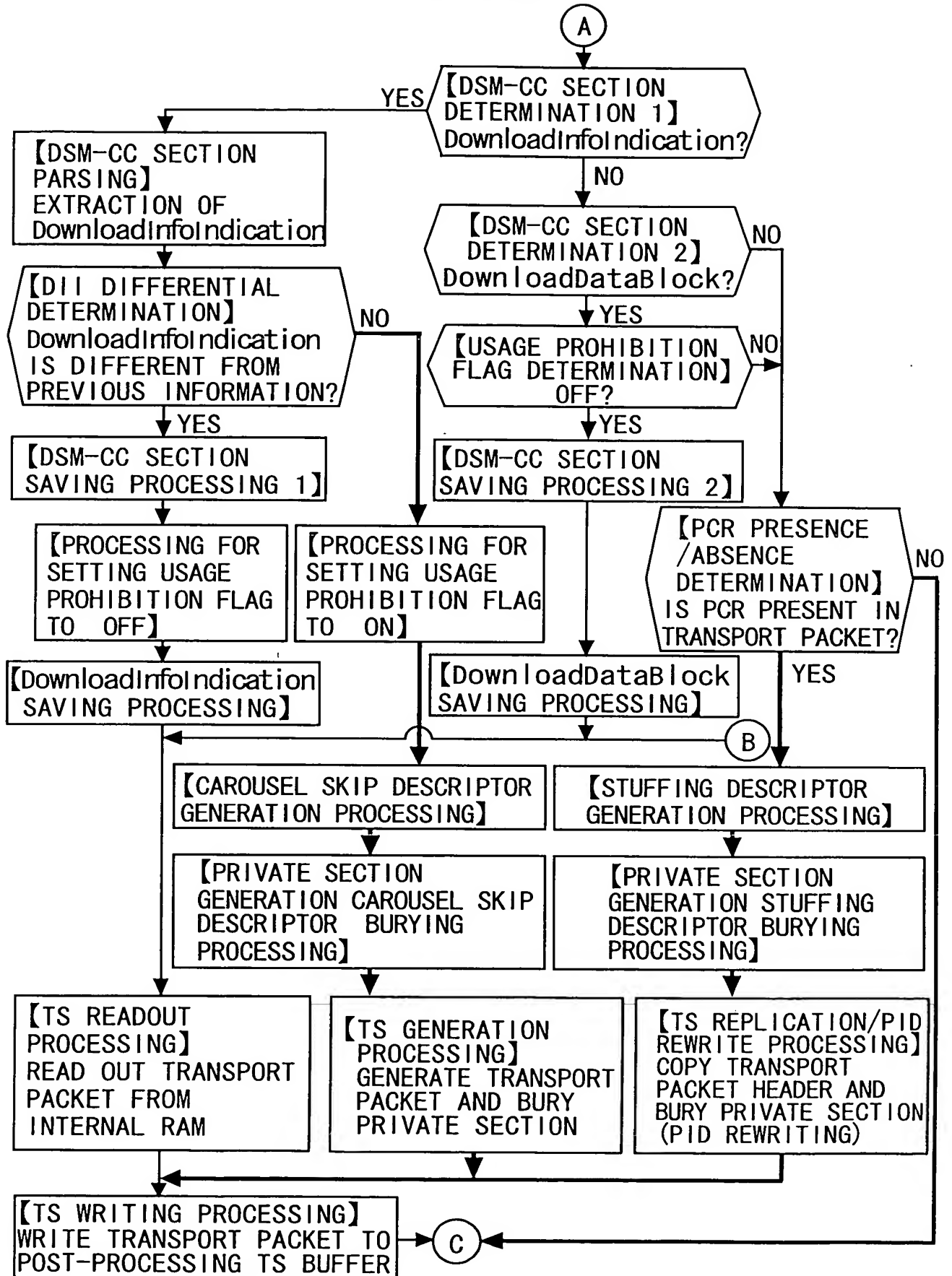




FIG. 24A

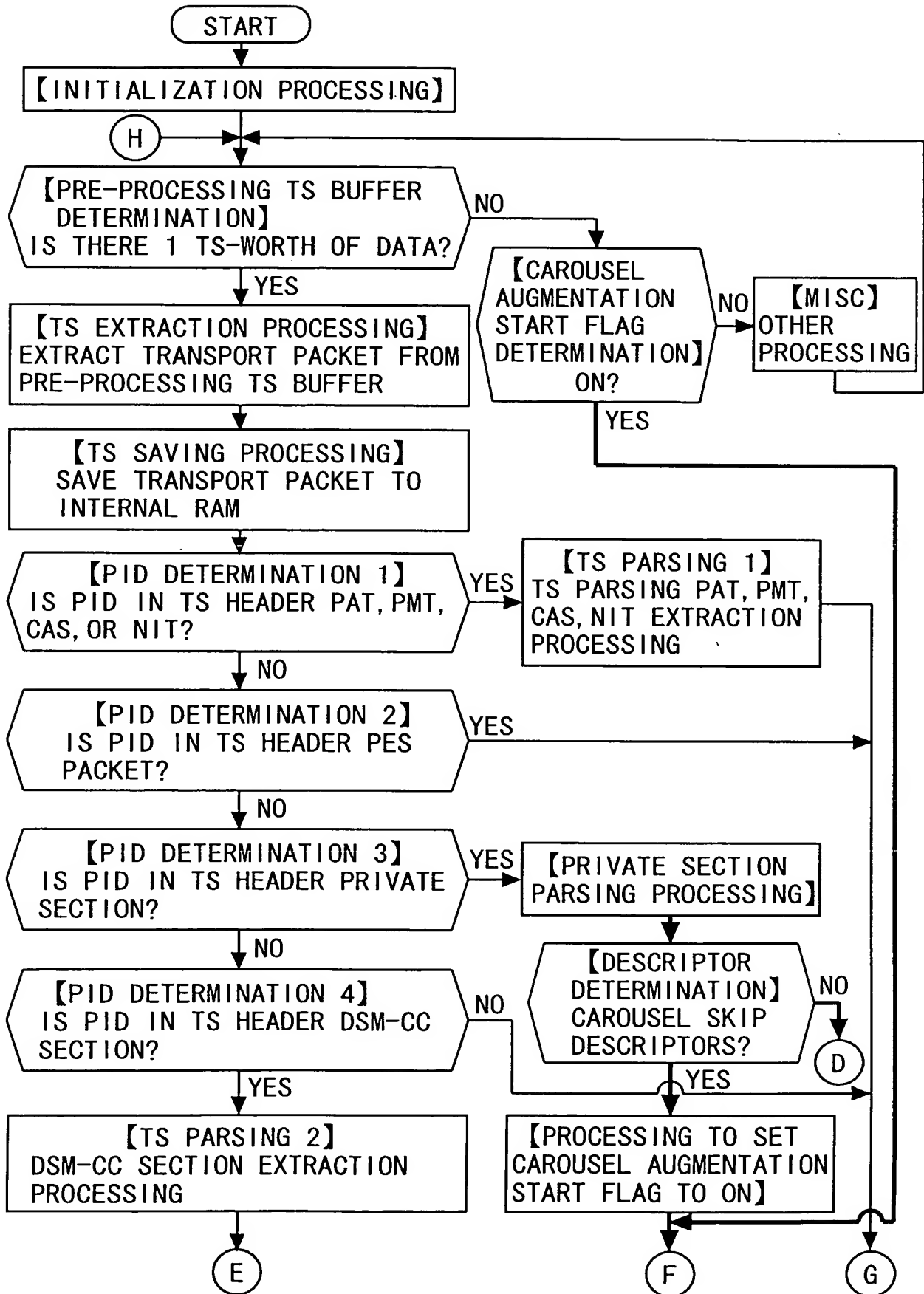


FIG. 24B

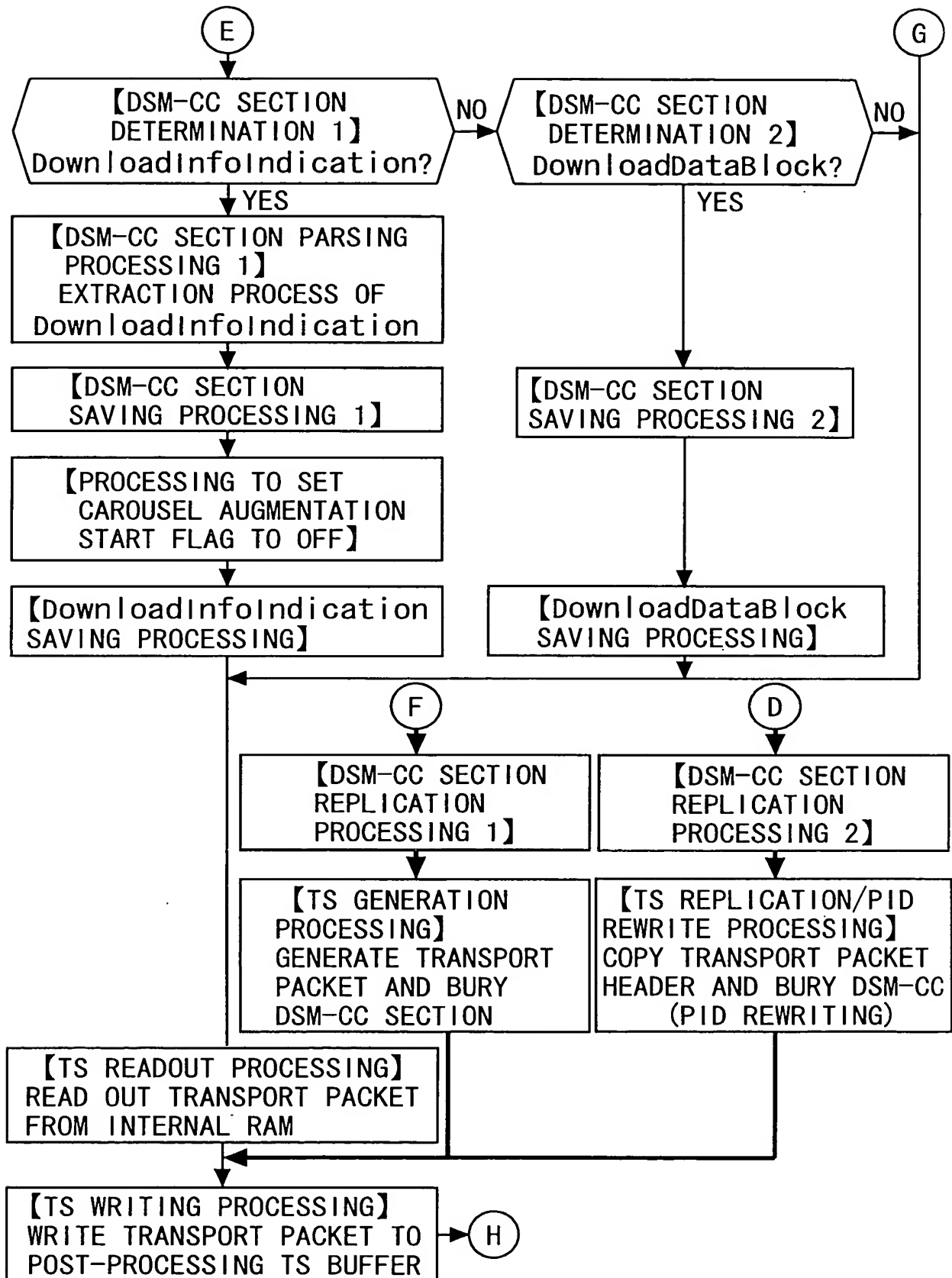


FIG. 25

3, 4 DIGITAL BROADCAST MATERIAL TRANSMITTER

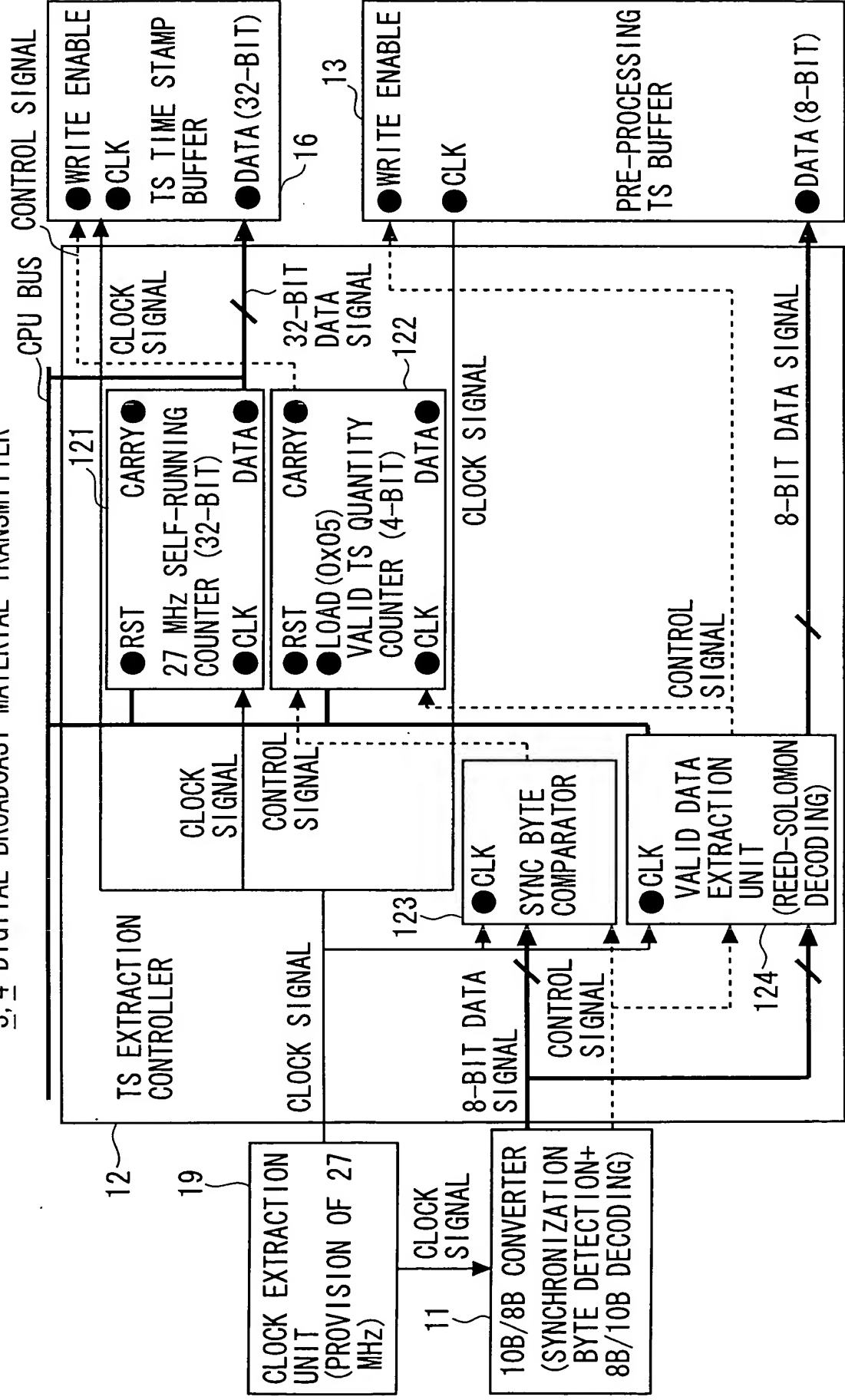


FIG. 26

